

Engine for Miniature High-Precision Propulsion System, Phase I

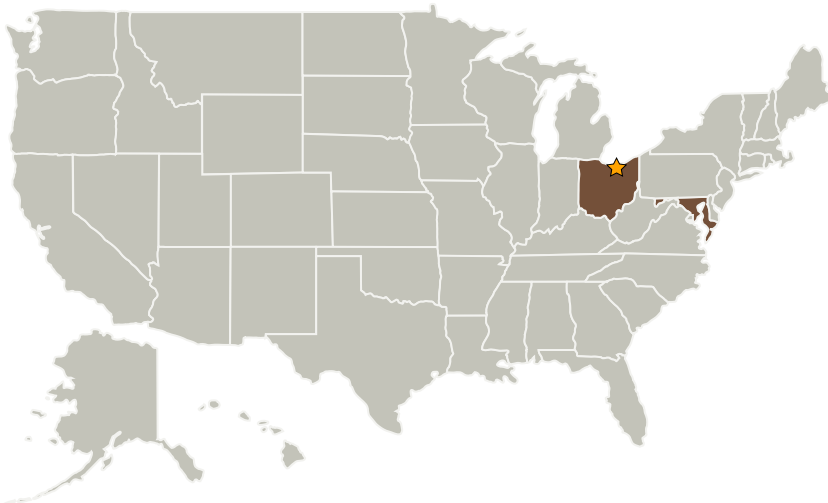
Completed Technology Project (2004 - 2004)



Project Introduction

We propose a Phase I SBIR research project that will result in a feasibility demonstration of a miniature divert engine producing precise impulse bits smaller than 100 millinewton-second. The miniature engine will be suitable for stationkeeping and attitude control for a miniature light-weight satellite. This technology demonstration program will capitalize on miniature engine technology developed by Enigmatics and SAIC under MDA SBIR Phase I and Phase II projects, combined with a novel engine design for the proposed application.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Glenn Research Center(GRC)	Lead Organization	NASA Center	Cleveland, Ohio
Enigmatics, Inc.	Supporting Organization	Industry	College Park, Maryland

Primary U.S. Work Locations

Maryland	Ohio
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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Glenn Research Center (GRC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

David L Book

Technology Areas

Primary:

- TX01 Propulsion Systems
 - └ TX01.3 Aero Propulsion
 - └ TX01.3.4 Pressure Gain Combustion